

#### LIMITED ONE YEAR WARRANTY

Chaney Instrument Company warrants that all products it manufactures to be of good material and workmanship and to be free of defects if properly installed and operated for a period of one year from date of purchase. REMEDY FOR BREACH OF THIS WARRANTY IS EXPRESSLY LIMITED TO REPAIR OR REPLACEMENT OF DEFECTIVE ITEMS. Any product which, under normal use and service, is proven to breach the warranty contained herein within ONE YEAR from date of sale will, upon examination by Chaney, and at its sole option, be repaired or replaced by Chaney. In all cases, transportation costs and charges for returned goods shall be paid for by the purchaser. Chaney hereby disclaims all responsibility for such transportation costs and charges. This warranty will not be breached, and Chaney will give no credit for products it manufactures which shall have received normal wear and tear, been damaged, tampered, abused, improperly installed, damaged in shipping, or repaired or altered by others than authorized representatives of Chaney.

THE ABOVE-DESCRIBED WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND ALL OTHER WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. CHANEY EXPRESSLY DISCLAIMS ALL LIABILITY FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES, WHETHER ARISING IN TORT OR BY CONTRACT FROM ANY BREACH OF THIS WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. CHANEY FURTHER DISCLAIMS ALL LIABILITY FROM PERSONAL INJURY RELATING TO ITS PRODUCTS TO THE EXTENT PERMITTED BY LAW. BY ACCEPTANCE OF ANY OF CHANEY'S EQUIPMENT OR PRODUCTS, THE PURCHASER ASSUMES ALL LIABILITY FOR THE CONSEQUENCES ARISING FROM THEIR USE OR MISUSE. NO PERSON, FIRM OR CORPORATION IS AUTHORIZED TO ASSUME FOR CHANEY ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF ITS PRODUCTS. FURTHERMORE, NO PERSON, FIRM OR CORPORATION IS AUTHORIZED TO MODIFY OR WAIVE THE TERMS OF THIS PARAGRAPH, AND THE PRECEDING PARAGRAPH, UNLESS DONE IN WRITING AND SIGNED BY A DULY AUTHORIZED AGENT OF CHANEY. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

#### For in-warranty repair, please contact:

Customer Care Department  
Chaney Instrument Company  
965 Wells Street  
Lake Geneva, WI 53147

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- 1- This device may NOT cause harmful interference, and
- 2- This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

**ACU-RITE®**  
DESIGNED TO WORK FOR YOU™



**Professional Weather Center**  
model #01025

**Instruction Manual**

## 1 Introduction: About the Professional Weather Center

### Section 1: Setup

- 2 Installing Batteries and Powering On
- 4 Installing the Wireless Multi-Sensor
- 6 Setting Time and Date
- 8 Language Selection
- 9 USB PC Connection
- 10 USB Mode Setup/Use
- 11 Setting Unit Preferences

### Section 2: Using the Professional Weather Center

- 13 Basic Functions
- 14 Wind Speed & Direction
- 15 Temperature & Humidity
- 16 Weather Forecast
- 17 Atmospheric Pressure
- 18 Rainfall
- 19 Weather Category History
- 20 Weather Category Alarms
- 23 Weather Ticker™ Functions

### Section 3: Tips and Troubleshooting

- 26 Maintenance Tips
- 27 Troubleshooting
- 29 Calibrating Your Weather Center
- 30 Specifications & Reference

### Parts List model #01025

- 1. Display console with table top stand
- 2. 5-in-1 multi-sensor
- 3. 5-in-1 multi-sensor mounting bracket
- 4. Snap-in debris filter for 5-in-1 rain collector
- 5. AC power adaptor for display console
- 6. USB cable

## Introduction

The AcuRite® Professional Weather Center with Integrated Multi-Sensor collects outside weather data and sends the data via wireless signal to the included Display Console via a low-power radio frequency. This weather center has been designed to be easy to install and use, without compromising any of the professional weather tracking features you want.

The AcuRite® 5-in-1 Multi-Sensor is completely wireless and contains a self-emptying rain collector for measuring rainfall, temperature/humidity sensor, anemometer, and a wind vane. The anemometer measures wind speed, and the wind vane measures wind direction. The Integrated Multi-Sensor is battery powered and features a solar panel for running an internal aspirating fan. The internal fan will assist in drawing ambient air through to reduce the heating effects of solar radiation, resulting in a more accurate air temperature measurement.

The sleek display console houses a liquid crystal display (LCD) which will calculate and display all the weather data received from the Integrated Multi-Sensor outside. The Display Console can be powered via AC power utilizing the included AC adaptor, or it can be powered with batteries. The Display Console has professional weather features such as alarms for high and low conditions, daily/all time record highs and lows, and an area for displaying a multitude of extra weather information- the Weather Ticker™. The display console also features a USB connection to send your weather data to your PC.

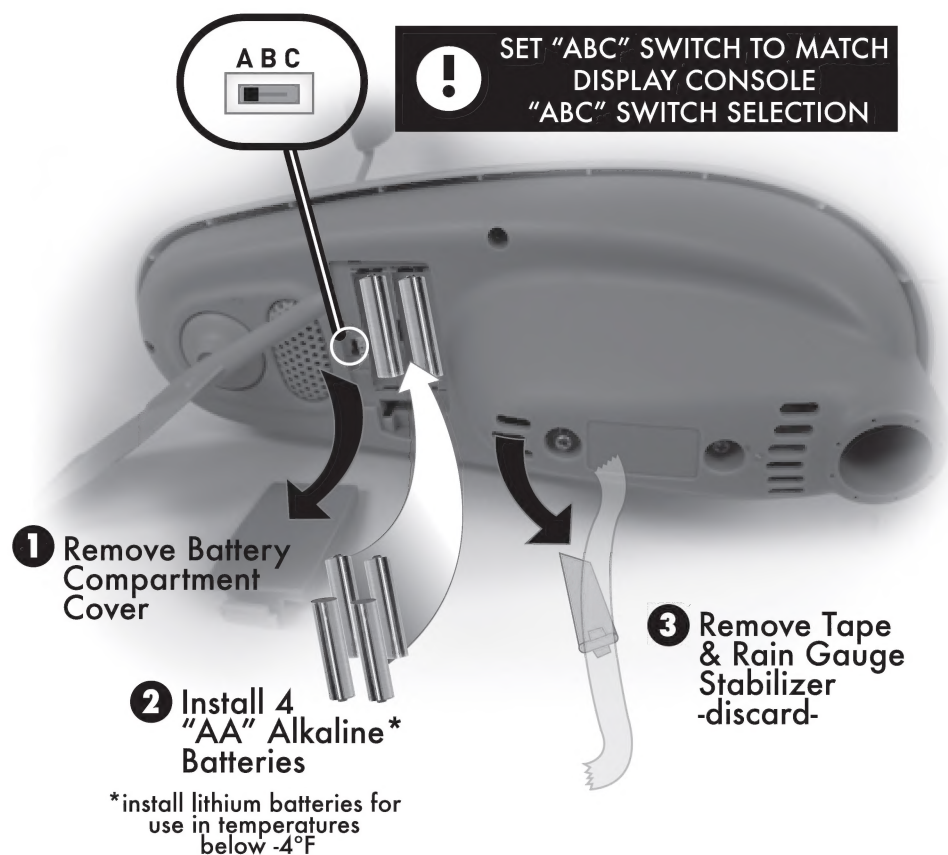
Please read through this manual to learn more about the AcuRite® Professional Weather Center. Keep this manual for future reference.



Please DO NOT return product to the retail store.  
For technical assistance and product return information, please call  
Customer Care: **877-221-1252** Mon. - Fri. 7:00 A.M. to 7:00 P.M. (CST)



## Installing Batteries - 5-in-1 Multi-Sensor

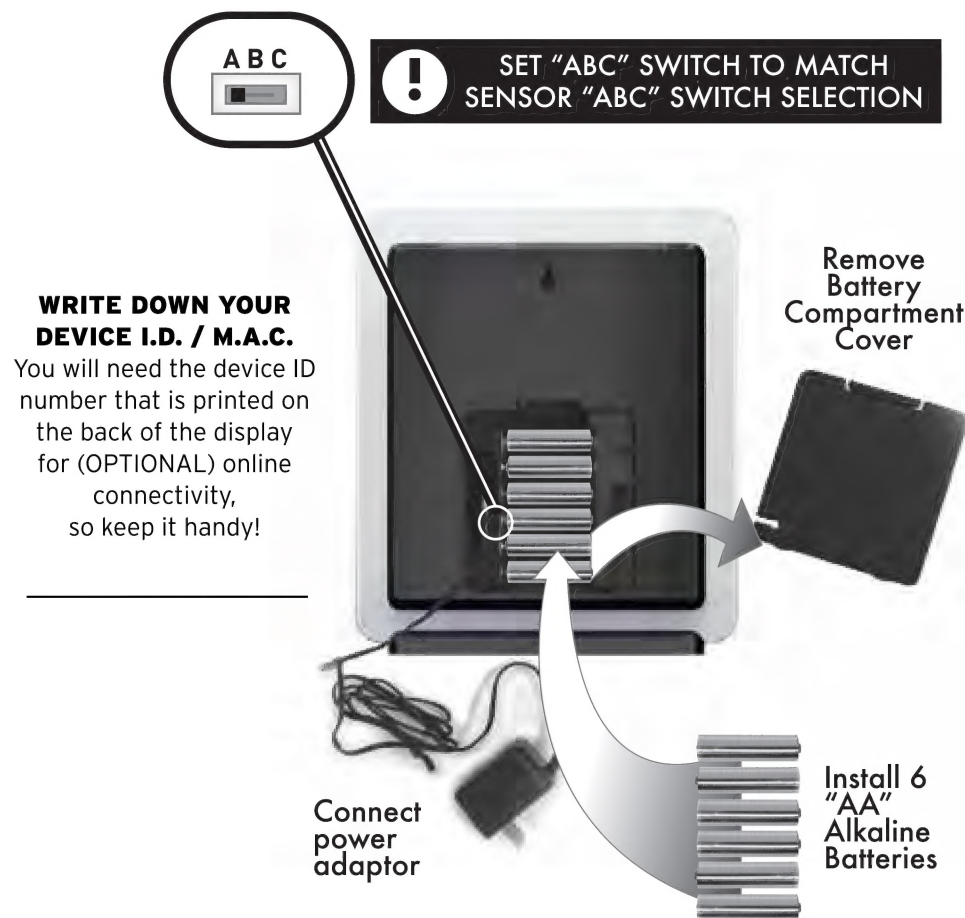


**NOTE:** Make sure to remove the tape and small plastic rain gauge stabilizer installed in the bottom of the sensor housing. The rain gauge will not function until this is removed.

**BATTERIES MUST BE INSTALLED FOR THE INTEGRATED SENSOR TO OPERATE:** The integrated sensor features a solar cell for collecting sunlight and converting it into usable power, this feature is intended to **EXTEND** the life of the batteries you install. This sensor **REQUIRES** batteries be installed to operate, and will not function on solar power alone.

PLEASE DISPOSE OF OLD OR DEFECTIVE BATTERIES IN AN ENVIRONMENTALLY SAFE WAY AND IN ACCORDANCE WITH YOUR LOCAL LAWS AND REGULATIONS.

## Installing Batteries - Display Console



The display console will operate under battery power OR AC power alone, however, it is recommended that batteries be installed to retain records and to ensure continued operation during a power outage.

Note that the Weather Ticker will display a scrolling welcome message and basic instructions after powering on.

**IMPORTANT:** set the time and date as soon as possible, weather history data is driven by the time and date and will record incorrect time and date information if the time and date are not set correctly.

## Installing the Wireless 5-in-1 Multi-Sensor

After installing batteries into the Wireless Multi-sensor, you must choose a location to install the sensor. To ensure that your professional weather center performs at its best, follow these guidelines to choose a mounting location for the wireless multi-sensor:

- **INSTALL AWAY FROM HEAT & HUMIDITY SOURCES:**

**DO NOT** Place the wireless multi-sensor near localized heat sources like heaters, air conditioners, chimneys and exhaust vents. Install the wireless multi-sensor away from asphalt or concrete as these surfaces radiate heat from the sun. Also avoid installing the sensor near pools, spas, or other bodies of water as these water sources may affect the accuracy of the humidity.

- **INSTALL AWAY FROM SPRINKLER HEADS:**

**DO NOT** install the wireless multi-sensor where it will be directly sprayed by a sprinkler system, this will affect the rainfall measurement accuracy and may force water into the housing.

- **WIND & RAIN OBSTRUCTIONS:**

**DO NOT** mount the sensor with obstructions above it, as this will ensure proper rainfall measurement. Also consider a mounting location that has very little structures around the sensor, to ensure proper wind speed and direction measurements.

- **INSTALLATION HEIGHT:**

**DO** Mount the wireless multi-sensor at least 5 feet off the ground (higher is better for accurate wind measurements) in an open area NO FURTHER than 300 feet (100 meters) from the display console. A typical installation would involve mounting the bracket to a secured length of 2x4 or 4x4 wood (not included).

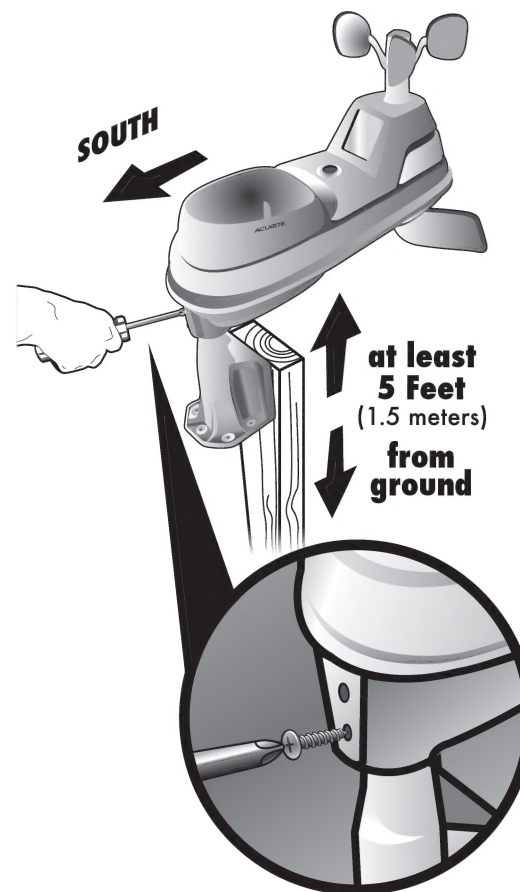
- **LEVEL INSTALLATION:**

**DO** Install the wireless multi-sensor as level as possible to ensure accurate rain and wind measurements. Use the bubble level on the top to ensure a level installation.

- **SOLAR CELL ORIENTATION:**

**DO** Install the sensor onto the mounting bracket with the **solar cell facing SOUTH**. This is important to ensure that the cell receives as much sun as possible, and also orients the wind direction properly.

**NO OBSTRUCTIONS ABOVE  
OR AROUND**



Install the wireless multi-sensor with the solar cell facing south to properly orient the wind direction vane.

Choose an open location with no obstructions above or around the sensor for accurate rain and wind measurement.

Secure the included sensor mounting bracket to a post or pole (not included) utilizing the included hardware.

### TO CLEAR DATA COLLECTED DURING INSTALLATION:

During the process of installation, internal sensors were likely triggered-resulting in erroneous rainfall and wind measurements. When installation is complete, you may want to clear out the erroneous data from the display consoles memory.

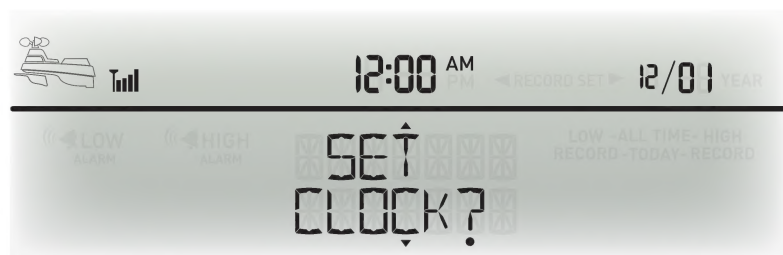
To clear out the display consoles memory without having to reset the clock and re-establish communication, press the "CLEAR TODAY" button. This button will clear out any data that was recorded since 12:00 am that day. The "CLEAR TODAY" button is located on the back of the display console within the battery compartment.



## Setting the Time & Date

After powering on the display console, you must set your local time and date. It is important to do this as soon as possible, as the history functions will utilize the clock and calendar to time stamp records and data of interest.

The default selected weather category on the display should be "SET CLOCK" after initial power on. If "SET CLOCK" is not currently displayed, press the up or down buttons until "SET CLOCK?" is displayed.



1. Press the "⚙️" button to set the clock
2. Adjust the hour up or down, note the "AM" and "PM" indicators



3. Press the "⚙️" button to confirm hour selection
4. Adjust the minute up or down



5. Press the "⚙️" button to confirm minute selection.

The clock setting procedure is now complete.

After setting the clock upon initial startup, the display should automatically bring you to the "SET DATE?" If "SET DATE?" is not currently displayed, press the up or down buttons until "SET DATE?" is displayed.



1. Press the "⚙️" button to set the date
2. Adjust the month up or down



3. Press the "⚙️" button to confirm month selection
4. Adjust the day up or down



5. Press the "⚙️" button to confirm day selection.
6. Adjust the year up or down.



7. Press the "⚙️" button to confirm year selection.

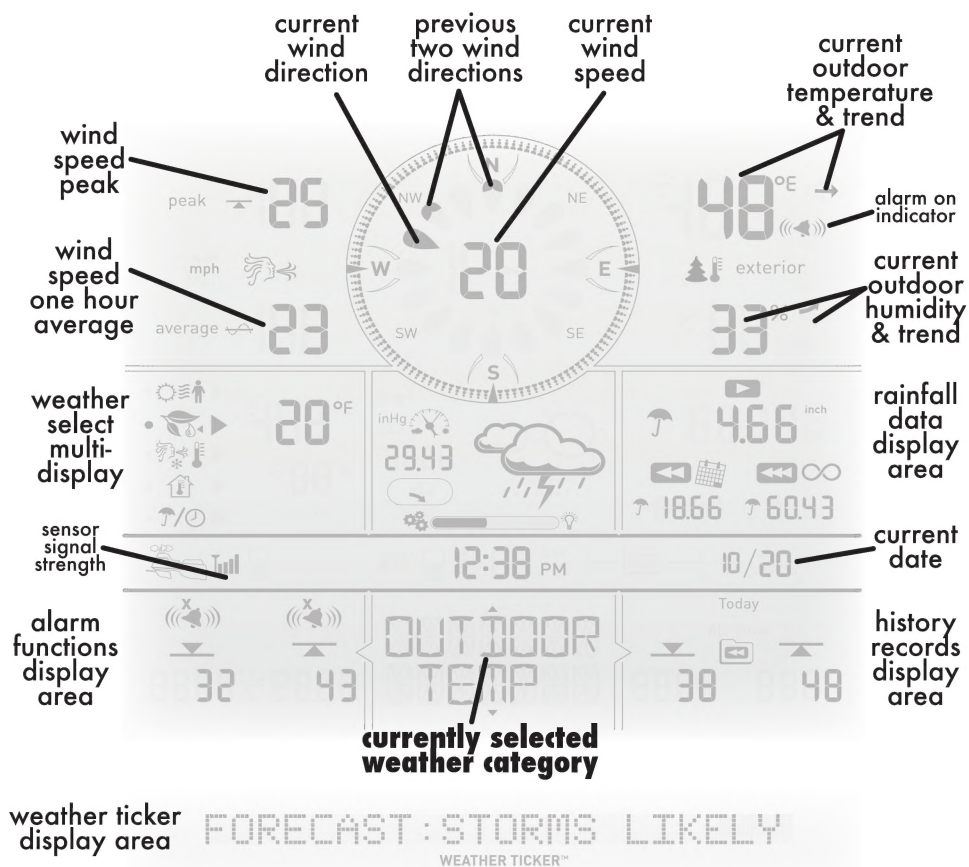
The Date setting procedure is now complete.

## Language Selection

The display console is designed for use in either English(default) or French. To set the display to a different language, press the "▲" button until you see the category read "SET LANG?". Press the "⚙️" button to set the language, then press the "▲" button to select the desired language. Press the "⚙️" button again to confirm your language selection.

NOTE: If the display runs out of power or is reset, English will be display language as it is the default language selection.

## Display Features



## USB PC Connection (optional)

The display console gives you the option to connect the display to your PC for expanded functionality and features. The integrated USB port for is located next to the power adaptor port within the battery compartment.

[www.AcuRite.com](http://www.AcuRite.com)

1. Go to [www.acurite.com](http://www.acurite.com) and click on the "My Backyard Weather" link and follow the on-screen instructions for installing software for your USB connected weather station display console.

2. Connect USB cable to display console



3. Connect USB cable to your PC



**PC CONNECT REQUIREMENTS:** A PC running Windows® XP, Windows® Vista, or Windows® 7 with an available USB port. A high speed internet connection is required to use some of the advanced features of the USB connect Acu-Link system.



## USB Connectivity (optional)

Once you have installed the software from the website and connected the USB cable to your PC, you must choose a USB mode to take advantage of the USB connectivity..

The display console has 512kb of internal memory\*, which is enough space to log (save) about 2 weeks worth of weather data. When the internal memory is nearing capacity, the weather ticker will display a message informing you to download the internal memory to your PC soon. This is done using the download application (available from [www.acurite.com](http://www.acurite.com)).

The download to your PC will export the logged data from the display console onto your PC as a simplified data-view CSV file (Comma-separated values).

The display console web *bridge mode* can also be enabled to stream live data to the internet to the AcuRite weather servers. From there, you can access your home weather data from any internet-connected PC or from your smart phone using the aculink app.

## USB Modes Overview

|            | LOGS DATA INTERNALLY EVERY 12 MINS. | RUN UNLOAD SOFTWARE TO EXPORT TO PC | EXPORT CONSOLE DATA TO CSV FILE | SENDS DATA TO ACURITE SERVERS | VIEW DATA ONLINE & ON APP |
|------------|-------------------------------------|-------------------------------------|---------------------------------|-------------------------------|---------------------------|
| USB MODE 1 | ✓                                   | ✓                                   | ✓                               |                               |                           |
| USB MODE 2 | DEFAULT MODE                        |                                     |                                 |                               |                           |
| USB MODE 3 | ✓                                   | ✓                                   | ✓                               | ✓ **                          | ✓ **                      |
| USB MODE 4 |                                     |                                     |                                 | ✓ **                          | ✓ **                      |

\* internal memory is not expandable

\*\* Requires an "always-on" internet connection for continuous data streaming

## USB Modes (optional)

### USB Mode 1: Display logging ON

- Display console logs (saves) data internally every 12 minutes
- Run download software on your PC to export console data into CSV (comma separated values- data sheet) file

### USB Mode 2: Display logging OFF (DEFAULT)

- Display console DOES NOT log (save) any internal data (if you choose NOT to connect the display console to your PC)

FOR MODES 3 & 4, YOU WILL NEED YOUR DEVICE I.D. / M.A.C. NUMBER TO REGISTER FOR ONLINE ACCESS AND APP ACCESS TO YOUR WEATHER DATA. THIS NUMBER IS LOCATED ON THE BACK OF THE DISPLAY CONSOLE

### USB Mode 3: Web Bridge Mode/Display Logging ON

- Display console logs (saves) data internally every 12 minutes
- Sends data stream from your PC internet connection in real time\*\* in raw format to Acu-Rite weather servers. (automatic)
- Run download software on your PC to export console data into CSV file

### USB Mode 4: Web Bridge Mode/Display Logging OFF

- Display console DOES NOT log (save) any internal data
- Sends data stream from your PC internet connection in real time\*\* in raw format to Acu-Rite weather servers. (automatic)

## Setting USB Mode

To set the USB mode, you need to first select "SET USB MODE?" in the center display area by pressing the up or down buttons. Press the "⚙️" button to enter into USB set mode.



Press the up or down buttons to browse through the 4 different USB modes. Press the "⚙️" button to confirm your selection.



## Setting Unit preferences

### CHANGING UNITS

The Professional Wireless Weather Center comes pre-set from the factory in standard units ( mph, °F, etc.). You may wish to change to metric units ( kph, °C, etc.).

To change the units, you need to first select "SET UNITS?" in the center display area by pressing the up or down buttons.



1. Press the "⚙️" button to adjust the unit preference
2. Press the up or down buttons to select either "STAND" for standard or "METRIC" for metric units.
3. Press the "⚙️" button to confirm your desired selection
4. You will now see "WIND MPH", press the up or down buttons to select either MPH, KPH, or KNOTS for wind speed unit of measurement.



5. Press the "⚙️" button again to confirm your desired selection and exit "SET UNITS?" menu.

## Basic Functions

The Professional Wireless Weather Center was designed to give you the most often used information at a glance. The following is an overview of basic functions for everyday use.

### WEATHER SELECT:

The "Weather Select" area of the display features heat index, dew point, wind chill calculations, as well as indoor temperature and humidity. Rainfall rate (inches per hour) can also be viewed in the weather select area. To change the "Weather Select" category, press the selection arrow button just to the left of the weather select display area.



press the selection arrow to change the weather select display

☀️👤 = Heat Index

🍃💧 = Dew Point

👤🌡️ = Wind Chill

🏠 = Indoor Conditions

☔️🌧️ = Rainfall Rate (in./hr)

### WIRELESS SIGNAL RECEPTION ICON:

The display console features a "SENSOR" signal reception icon to the left of the clock display area. If there are a low number of "bars" present, you may experience no temperature display ( "-" ) or inaccuracy. Occasionally, due to intermittent physical obstructions (such as vehicle traffic, etc.) or other environmental interference, the signal may be lost. If the sensor batteries are low the signal will be lost as well. After a signal loss- the display console will automatically begin to search for the wireless multi-sensor and attempt to re-acquire the wireless signal. In the event that the signal is lost completely and cannot be re-acquired, the weather ticker will display **"SENSOR SIGNAL LOST- CHECK BATTERIES AND PLACEMENT"**. See "troubleshooting" for more information.



## Wind Speed & Direction

The display console features WIND SPEED PEAK, AVERAGE, CURRENT WIND SPEED, CURRENT WIND DIRECTION, and WIND DIRECTION RECENT HISTORY INDICATORS. All of the wind data points are displayed in the center and upper left portion of the display.



### WIND SPEED PEAK:

The WIND SPEED PEAK will display the highest wind speed recorded in the previous 60 minutes.

### WIND SPEED AVERAGE:

The WIND SPEED AVERAGE will display the average of all the wind speed numbers recorded in the previous 2 minutes.

### CURRENT WIND SPEED:

The CURRENT wind speed will display the currently recorded wind speed and is updated every 18 seconds.

### CURRENT WIND DIRECTION:

The CURRENT WIND DIRECTION rosette graphic will display the currently recorded direction that the wind is coming from, this is updated every 18 seconds. The current wind directions is represented by the "FULL ARROW" graphic.

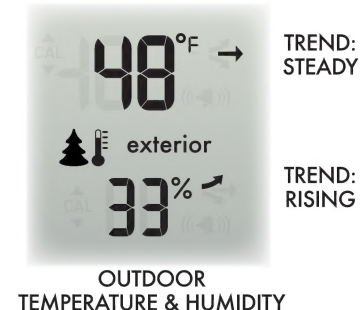
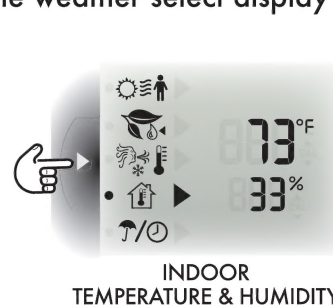
### RECENT HISTORY- WIND DIRECTION:

The RECENT HISTORY-WIND DIRECTION is the "memory" of the last two wind direction readings. The last two readings are represented by the "PARTIAL ARROW" bump graphics. This feature will give you a good idea of the more general direction the wind is coming from.

**SEE "USING ALARMS", "HISTORY" AND "WEATHER TICKER" TO EXPLORE MORE ADVANCED WIND FEATURES**

## Temperature & Humidity

The display console features OUTDOOR TEMPERATURE & HUMIDITY as well as INDOOR TEMPERATURE & HUMIDITY. Outdoor temperature and humidity data points are shown in the upper right portion of the display. Indoor readings are viewable in the weather select display area.



### OUTDOOR TEMPERATURE:

The OUTDOOR TEMPERATURE sensor is located within the wireless multi-sensor. This sensor is fan-aspirated, which will provide an accurate temperature measurement-even in direct sunlight.

### % OUTDOOR HUMIDITY:

The OUTDOOR HUMIDITY sensor is located within the wireless multi-sensor. This sensor is fan-aspirated, which will provide an accurate overall humidity measurement.

### TREND INDICATORS:

The OUTDOOR TEMPERATURE AND HUMIDITY displays' both feature a trend arrow indicator. One of the three arrow icons will illuminate- indicating if the temperature or humidity is RISING, STEADY, or FALLING.

### INDOOR TEMPERATURE & HUMIDITY:

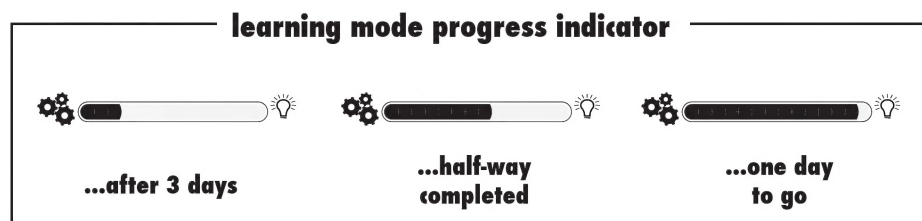
The INDOOR TEMPERATURE & HUMIDITY is viewed in the WEATHER SELECT display. The INDOOR sensors are located within the display console, which is ventilated for accuracy.

**SEE "USING ALARMS", "HISTORY" AND "WEATHER TICKER" TO EXPLORE MORE ADVANCED TEMPERATURE & HUMIDITY FEATURES**

## Weather Forecast

### FORECAST: 14 day learning mode

This weather station has a patented “fourteen day learning mode” calibration process. During this learning mode the weather station will make altitude calculations that may affect the accuracy of the forecast. Once the 14 day learning mode process is complete, the learning mode icon will disappear and the weather forecast should be ready for superior operation.



### FORECAST: future forecast icon

The display console features a weather forecast icon which gives you the predicted weather forecast for the next 12 to 24 hours based on an advanced algorithm that observes the changes in barometric pressure and temperature. The FORECAST icon will then predict the future (next 12 to 24 hours) weather forecast. This weather station will provide the most accurate forecast that a single station weather instrument can provide.

### PRODUCT REGISTRATION

To receive product updates and information, Go to

**www.AcuRite.com**

### SUPPORT

Support Forum

Archived Products

► Register a Product

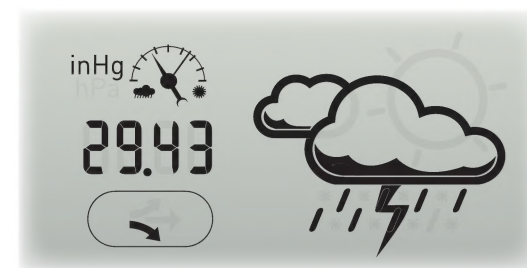
## Atmospheric Pressure

Atmospheric Pressure is defined as the pressure at any location on the Earth, caused by the weight of the column of air above it. At sea level, atmospheric pressure has an average value of one atmosphere and gradually decreases as altitude increases. Also called barometric pressure.

The weight of the atmosphere that envelopes Earth exerts pressure on all points of the planet's surface. Meteorologists use barometers to measure this atmospheric pressure (also called barometric pressure). At sea level the atmospheric pressure is approximately 1 kilogram per square centimeter (14.7 pounds per square inch), which will cause a column of mercury in a mercury barometer to rise 760 millimeters (30.4 inches). Variations in the atmospheric pressure greatly affect the weather. Low pressure generally brings rain. In areas of low air pressure, the air is less dense and relatively warm, which causes it to rise. The expanding and rising air naturally cools, and the water vapor in the air condenses, forming clouds and the drops that fall as rain. In high pressure areas, the air is dense and relatively cool, which causes it to sink. The water vapor in the sinking air doesn't condense, resulting in clear skies.

### PRESSURE:

The display console features a pressure read-out, just to the right of the forecast icon. The pressure readout area will also indicate if the pressure is FALLING, STEADY, or RISING.





## Rainfall

### ▶ RAINFALL EVENT:

The "RAINFALL EVENT" display will give you the rainfall total from the current rain event. A weather system may come into your area very slowly, and may rain over many hours or days without many breaks. The rainfall event total accounts for this and will continue to display the total until the rain event is over.

### ◀📅 RAINFALL MONTH TOTAL:

The "MONTH" display will give you the rainfall total from the current calendar month.

### ◀∞ RAINFALL TOTAL:

The "TOTAL" display will give you the rainfall total recorded since the display console and wireless multi-sensor were powered on.



▶ = Event Total

◀📅 = Month Total

◀∞ = All-Time Total

### RAINFALL RATE:

The "RAINFALL RATE" display will calculate how many inches of rain would accumulate in a one hour time period, based on the current rainfall rate.



press the selection arrow to  
change the weather select display

## Weather Category History Functions

### HISTORY MODE:

Each weather category (example- "OUTDOOR TEMP" category shown below) will display today's LOW and/or HIGH record by default.

To view the *all time* low record for the currently selected weather category, press the "HISTORY MODE" (📁) button. The display will show the all time low record as well as the month/date and year the record was set. The history display will return to default after 15 seconds of no button activity.

To view the *all time* high record for the currently selected weather category, press the "HISTORY MODE" (📁) BUTTON AGAIN. The display will show the all time high record as well as the month/date and year the record was set. The history display will return to default after 15 seconds of no button activity.



currently selected  
weather category

**OTHER HISTORY RECORDS ARE DISPLAYED AUTOMATICALLY IN THE WEATHER TICKER DISPLAY WHEN RELEVANT. SEE "WEATHER TICKER" SECTION OF THIS MANUAL FOR MORE DETAILS**

## Weather Category Alarm Functions

### WEATHER ALARMS:

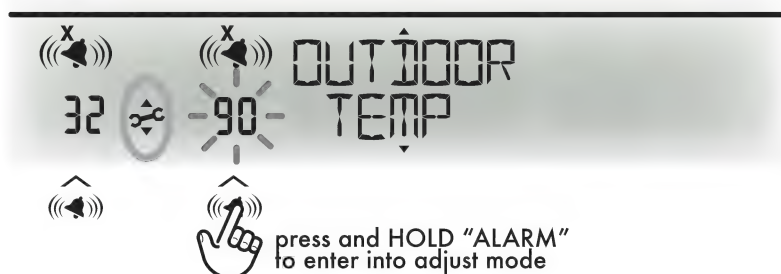
Each weather category (example- "OUTDOOR TEMP" category shown below) features alarm options. The alarm options are displayed to the left of the currently selected weather category.

Alarms are all set to "OFF" by default upon powering on the display console.

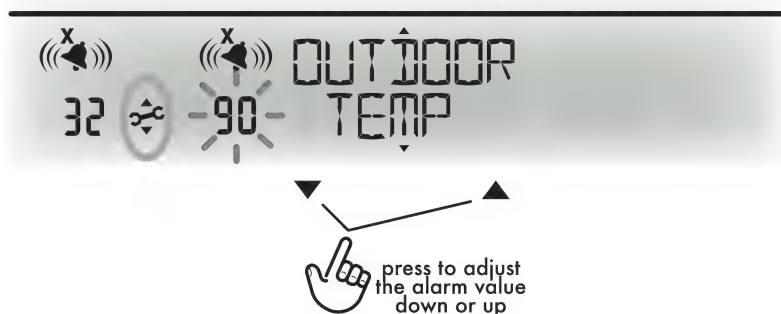
NOTE: Some weather categories will only have either low alarm OR high alarm options. For example, WIND SPEED only has a HIGH wind speed alarm. In these cases, only the relevant alarms for the selected weather category may be set.

### ALARM VALUE ADJUST MODE:

To adjust an alarm value for the currently selected weather category, press AND HOLD the "ALARM" button for the alarm you wish to set. Note the adjust (ADJ) indicator



To adjust the alarm value, press the down or up buttons. When you are finished making adjustments to the alarm value, press the "ALARM" button again to confirm your adjustments.



### TURNING ALARMS ON or OFF:

After you have adjusted and set an alarm value, you will note that the alarm is **NOT** automatically turned on. This is done to help prevent "false alarms" and also allows you to set all your preferred alarm values ahead of time without having to turn them all off when you are finished.

To turn an alarm ON, press the alarm button. You will note the "OFF" will change to "ON" momentarily, and then the alarm value will be displayed. This alarm is now "ON", and the display console will alert you when this value is reached with an audible alarm and an alarm icon indicator on the display.



### SILENCE A SOUNDING ALARM:

When an alarm is sounding, the weather category display will automatically change to show the affected category and alarm (flashing). The affected weather data on the display console will also flash.

The alarm will sound initially for a few minutes, then silence itself. The alarm will then sound every few minutes afterwards until one of the following takes place.

1. "SNOOZE"- To silence a sounding alarm, press any button. This will act similar to the "SNOOZE" function on an alarm clock. The alarm will silence, but will sound again if the alarm condition still exists later.

2. Turn the alarm "OFF"- The only way to permanently silence any potential alarms is to turn the alarm "OFF".



## Weather Category Alarm Notes

### RAIN ALARM NOTE:

The "RAIN ALARM" can either be set to ON or OFF, no numerical value can be set. If set to "ON", the rain alarm will sound as soon as the first amount of rain is recorded.

### STORM ALARM NOTE:

The "STORM ALARM" can either be set to ON or OFF, no numerical value can be set. If set to "ON", the STORM alarm will sound as soon as a large ATMOSPHERIC PRESSURE DROP is observed by the display console. A large pressure drop will usually indicate an approaching storm.

**CAUTION:** the storm alarm feature is NOT intended to be a safety device and should not be considered a warning system. Your local weather warning system and the national weather service should be your main source for severe weather warnings and information.

### SUMMARY OF AVAILABLE WEATHER ALARMS:

OUTDOOR TEMPERATURE ALARMS AVAILABLE: LOW & HIGH

OUTDOOR HUMIDITY ALARMS AVAILABLE: LOW & HIGH

WIND SPEED ALARM AVAILABLE: HIGH

RAIN ALARM AVAILABLE: START OF RAIN

HEAT INDEX ALARM AVAILABLE: HIGH

DEW POINT ALARMS AVAILABLE: LOW & HIGH

WIND CHILL ALARM AVAILABLE: LOW

INDOOR TEMP ALARMS AVAILABLE: LOW & HIGH

INDOOR HUMIDITY ALARMS AVAILABLE: LOW & HIGH

STORM ALARM AVAILABLE: LARGE PRESSURE DROP

## Weather Ticker™

The WEATHER TICKER™ is a scrolling text area at the bottom of the main console display. This area will automatically display an array of relevant messages, like extra weather details and records.

### AUTOMATIC DEFAULT WEATHER TICKER DISPLAY:

There are default WEATHER TICKER™ messages that will display on an automatic cycle every day, such as MOON PHASE and FORECAST, as well as others. Below is an overview of the daily default WEATHER TICKER™ messages.

- FORECAST= a text readout of the 12-24 hour future forecast
- MOON PHASE= the current moon phase
- INDOOR COMFORT= dry, OK or humid
- IT FEELS LIKE \_\_ OUTSIDE= this is a calculation based on temperature, humidity and wind speed which will tell you how the temperature actually feels like
- OUTDOOR TEMP THIS WEEK HIGH \_\_= highest temperature recorded this calendar week.
- OUTDOOR TEMP THIS WEEK LOW \_\_= lowest temperature recorded this calendar week.
- OUTDOOR TEMP THIS MONTH HIGH \_\_= highest temperature recorded this calendar month.
- OUTDOOR TEMP THIS MONTH LOW \_\_= lowest temperature recorded this calendar month.

You may also MANUALLY cycle through all the available weather ticker messages by pressing the "C" button at any time. These messages can be removed or added back into the automatic weather ticker display whenever you wish. To learn how to remove or add messages to the WEATHER TICKER™, see "CUSTOMIZING THE WEATHER TICKER™"

FORECAST : STORMS LIKELY  
WEATHER TICKER™

✕ remove



CYCLE button  
manually cycles  
through all currently  
available weather messages

+ add

## Weather Ticker™ Extra Messages

### EXTRA WEATHER TICKER MESSAGES:

In addition to the automatic general daily messages, there are extra automatic messages which provide additional interesting details about the current weather conditions. Below is an overview of the extra WEATHER TICKER™ messages.

- NEW HIGH TEMPERATURE RECORD \_\_= will display when there is a new HIGH temperature record recorded (outdoor)
- NEW LOW TEMPERATURE RECORD \_\_= will display when there is a new LOW temperature record recorded (outdoor)
- NEW WIND SPEED RECORD TODAY \_\_= will display when a new high wind speed record is recorded
- CURRENT RAINFALL RATE \_\_ inches per hour= will display the rainfall rate (inches per hour) when the rainfall rate is steady enough and duration is long enough to be calculated
- CURRENT RAIN EVENT STARTED \_\_= will display when the current rainfall event started
- NO RAIN RECORDED SINCE \_\_= will display how many DAYS have elapsed since the last rainfall was recorded by the integrated wireless sensor

The WEATHER TICKER™ will also display diagnostic messages as well, such as "SENSOR BATTERIES LOW" and "SENSOR SIGNAL LOST." The WEATHER TICKER™ will also display any WEATHER ALARM messages.

### TICKER SPEED ADJUSTMENT:

The WEATHER TICKER™ text scrolling speed can be changed. use the "UP" or "DOWN" buttons to select "TICKER SPEED". Press the "SET" button to adjust the ticker speed to SLOW, MEDIUM, or FAST.

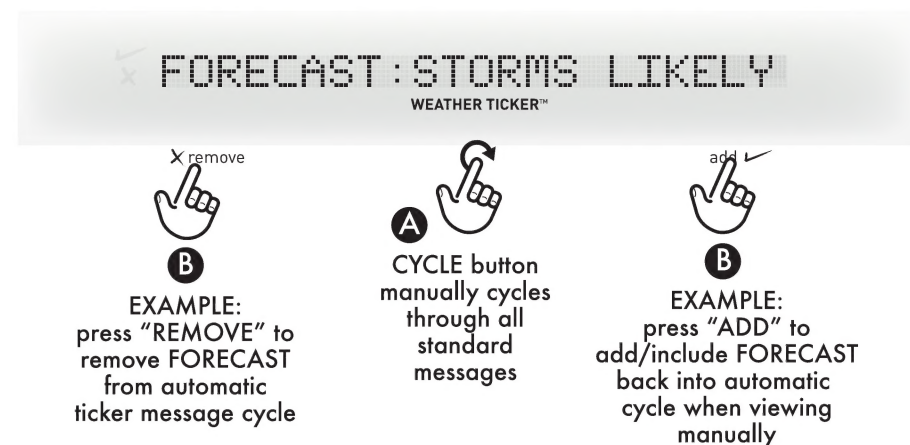
## Customizing the Weather Ticker™

The WEATHER TICKER™ allows for a certain amount of customizing. This customizing feature allows you to be in control; you may choose which general weather messages will be displayed on the WEATHER TICKER™ display.

To take quick stock of what messages are included or removed from the automatic WEATHER TICKER™ cycle, press the "C" button to go through each available message manually. The area to the left of each message will display the "X" if the message has been removed from the automatic WEATHER TICKER™ cycle, and a "✓" if it is included in the automatic WEATHER TICKER™.

While manually cycling through the available WEATHER TICKER™ messages using the "C" button, you may then press the "remove" button to remove the currently selected message from the automatic message cycle, or press the "add" button to add/include the message in the automatic cycle.

Please note that you MUST be manually (using the "C" button) cycling through the messages to mark them to be removed OR added, pressing the "remove" button when in normal automatic cycle mode will not remove messages.





## DISPLAY CONSOLE MAINTENANCE:

Clean with a soft damp cloth, do not use caustic cleaners or abrasives as these will damage the finish on the display console. Keep away from dust and dirt and moisture, dust ventilation ports regularly with a gentle puff of air, this will keep the indoor temperature and humidity accurate.

## INTEGRATED WIRELESS SENSOR MAINTENANCE:



Clean the housing with a damp cloth, do not use abrasive cleaners or any materials that will mar the polished surfaces of the rain collection funnel or the solar panel- this will result in decreased performance and reliability.

Occasionally remove the rain collector screen cup and empty it. This will filter out seeds and small sticks, etc. (the rain collector screen cup is located within the rain funnel- remove from the top gently by squeezing and pulling out).

Remove any foreign matter on the outside of the housing to allow for free movement of wind vane and anemometer.

**INSECTS:** in most cases, insects will not pose a problem. However, in some instances, insects may cause repeated obstructions to weather measurement by nesting or building homes in or on the integrated wireless sensor. In these cases, it may help to spray the housing with a commercially available home insect guard/repellent product (not included) to limit the problem. Please consult the insect repellent manufacturers instructions and safety information before using.

**BATTERY SAFETY:** Clean the battery contacts and also those of the device prior to battery installation. Remove batteries from equipment which is not to be used for an extended period of time. Follow the polarity (+/-) diagram in the battery compartment. Promptly remove dead batteries from the device. Dispose of used batteries properly. Only batteries of the same or equivalent type as recommended are to be used. DO NOT incinerate used batteries. DO NOT dispose of batteries in fire, as batteries may explode or leak. DO NOT mix old and new batteries or types of batteries (alkaline/standard). DO NOT use rechargeable batteries. DO NOT recharge non-rechargeable batteries. DO NOT short-circuit the supply terminals.

| Problem  | Possible Solution  |
|--|--|
| <b>Bad Wireless Sensor Reception</b><br><br> no bars                                      | Relocate the main unit and/or the wireless sensor. Both units must be within 330 feet (100m) from each other. Make sure both units are placed at least 3 feet (.91 m) from other electronic appliances and devices that may interfere with the wireless communication (such as TV's, microwaves, computers etc). NOTE: It may take up to 20 minutes for the main unit to re-synchronize with the sensor when batteries are replaced. Use lithium batteries in sensor when temperature is below -4°F (-20°C). |
| <b>No Wireless Sensor Data (no communication)</b><br><br> no bars and flashing " - " data | If wireless reception is bad (no bars), see "Bad Reception" section above. The wireless ID setting on each unit must match for all units to communicate properly. See "Set Wireless ID" on the next page.  |
| <b>Display Console Screen Not Working</b>  | Batteries may need replacing<br><br>Check that AC adaptor is fully inserted if running off AC power only   |
| <b>USB Connectivity is not working</b>   | Check that the USB cable is securely connected to the display console AND to your PC USB port.<br><br>Confirm that the correct mode is selected.   |
| <b>I Cannot Access my Data Online or from the APP</b>  | Check that the USB cable is securely connected to the display console AND to your PC USB port.<br><br>Confirm that USB mode 3 or 4 is selected.<br><br>Make Certain that the display console is powered on.<br><br>Confirm your display console DEVICE I.D. / M.A.C. number is entered into your online account correctly at <a href="http://www.acu-link.com">www.acu-link.com</a>  |

### Set Wireless I.D.

This wireless thermometer uses long range 433mhz radio frequency for communication.

In the event that you have reception problems due to interference, both the main unit and the wireless sensor have a selectable wireless ID. The ID switches are located within the battery compartments of the display console and the integrated wireless sensor.

You may choose A, B or C; but both the main unit and the wireless sensor ID's must match for successful synchronization.



**Both wireless ID switches must match**

## IMPORTANT NOTICE

Have questions about product setup or operation? We're here to help!

**24/7 Support:** [www.acurite.com](http://www.acurite.com)

- › Product Setup & Demo Videos
- › Product Manuals
- › Frequently Asked Questions
- › Register your Product
- › Support Forum
- › Submit Feedback & Ideas

EMAIL:  
[info@chaney-inst.com](mailto:info@chaney-inst.com)

TOLL FREE:  
**(877) 221-1252**  
7:00 a.m. - 7:00 p.m. CST

**1-Year Warranty**  
Don't forget! Register your product at: [www.acurite.com](http://www.acurite.com)

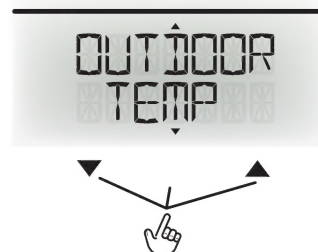
### CALIBRATING THE DISPLAY CONSOLE:

The integrated wireless sensor is designed and engineered to provide accurate measurements, the internal fan aspiration ensures a proper ambient air temperature in most cases.

If you feel that the placement or other environmental factors are affecting the indoor or outdoor temperature or humidity readings, the display console features a calibration feature for the indoor and outdoor temperature and humidity. This allows you to adjust the temperature or humidity reading up or down to compensate for the affected reading.

#### CALIBRATION PROCESS:

1. Select the affected category (outdoor temp example shown here)
2. Press AND HOLD the "DOWN", "SET", and "UP" buttons at the same time for 15-20 seconds.
  - The display console will "BEEP", and all information on the display will disappear except for the value you are calibrating.
  - You will note the "⚙" (calibrate) and the adjust up and down arrows next to the value you are calibrating.
3. Press the "UP" or "DOWN" arrows to calibrate the display console reading up or down from the actual reading.
4. Press the "SET" button to confirm your calibration adjustment.
  - Note that the calibration icon will stay illuminated next to all calibrated values. This is done so that you know that the value has been calibrated.



press and HOLD all three buttons for 15-20 seconds to calibrate



the calibration icon will stay illuminated after value is calibrated



## Product Facts #01025

Batteries: 10 x "AA" (included)

Lithium Batteries Recommended below -4°F

AC Power: 4.5 v adaptor (included)

### Measurement Ranges

Outdoor Temperature: **-40°F to 158°F**  
-40°C to 70°C

Outdoor Humidity: **1% to 99%**

Outdoor temperature and humidity sensors are internally fan aspirated to provide accurate readings, even in sunlight

Wind Speed: **0 to 99mph**  
0 to 159 kph

Wind Direction Indicators: **16 points**

Rainfall: **0 to 99.99 in.**

Indoor Temperature: **32°F to 122°F**  
0°C to 50°C

Indoor Humidity: **16% to 98%**

Backlight: **Yes**

Backlight is momentary when weather center display unit is on battery power, always on or off when utilizing AC power adaptor (included).

Calibration: **Yes**

The temperature and humidity readings on the weather center display unit may be calibrated.

Rainfall can be manually calibrated on the 5-in-1 wireless sensor. Basic tools required.

**Wireless Range: 330 ft / 100 m MAX**

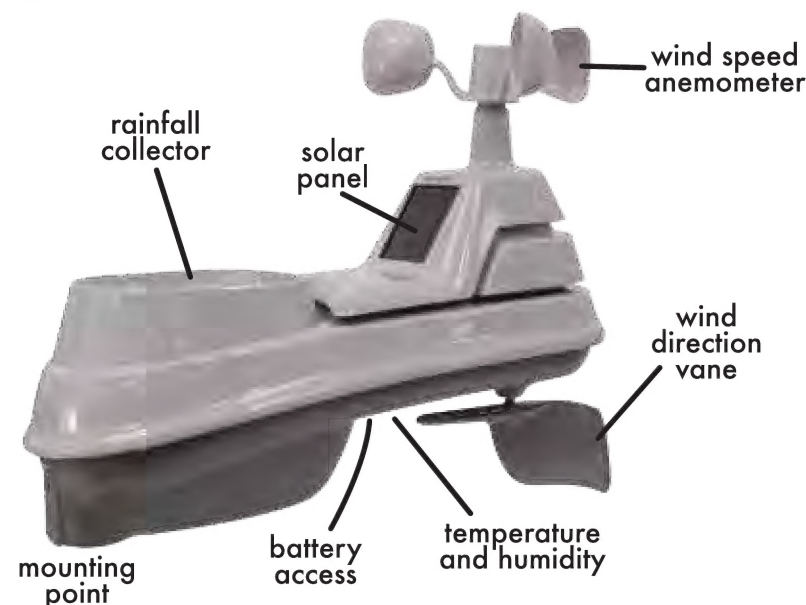
Depending on home construction materials

Transmission Interval: **18 seconds**

Patent numbers: 5,978,738; 6,076,044; 6,597,990; US 7,637,141 B2 and other patents applied for

Acurite and Acu-Link are trademarks and My Backyard Weather is a registered trademark of Chaney Instrument Co.  
965 Wells St. • Lake Geneva, WI 53147

## Integrated Multi-Sensor Features



## Display Console Features

